

ANNIKA C. MOSIER

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EDUCATION

- 2011 **Ph.D.**, Stanford University, Department of Environmental Earth System Science
2004 **M.S.**, University of Nevada, Reno, Department of Environmental and Natural Resource Sciences
2000 **B.A.**, Willamette University, Major in Biology, Minor in Environmental Science

PROFESSIONAL EXPERIENCE

- 2014-present Assistant Professor, University of Colorado, Denver, Department of Integrative Biology
Affiliated Faculty, University of Colorado, Denver, Environmental Sciences Program
2011-2014 Postdoctoral Scholar, University of California, Berkeley
2005-2011 Graduate Research Assistant, Stanford University
2005 Astrobiologist/Program Administrator, Nevada NASA Space Grant Consortium
2002-2004 Graduate Research Assistant, Desert Research Institute
2001-2002 Laboratory Assistant, Desert Research Institute
2000-2001 Associate Scientist, Trinity Biotech, Inc.
1999, 2000 Science and Technology Camp Director, Boys and Girls Club

RESEARCH GRANTS

- 2018 University of Colorado, Denver, Office of Research Services Grant (\$35,200; PI)
2017 USDA Forest Service, Forest Health Protection (\$16,900; Co-PI)
2017 University of Colorado, Denver, Office of Research Services Small Grant (\$3,600; Co-PI)
2017 University of Colorado, Denver, Office of Research Services Publication Grant (\$2490; PI)
2016 City and County of Denver, Environmental Quality Division (\$33,022; PI)
2016 University of Colorado, Denver, College of Liberal Arts and Sciences CRISP Grant (\$10,000; PI)
2016 University of Colorado, Denver, Office of Research Services Large Grant (\$21,250; Co-PI)
2016 Research Agreement with BeeInventive Pty Ltd (\$2,771 estimated in-kind support; Co-PI)
2015 University of Colorado, Denver, Office of Research Services Capital Grant (\$17,200; Co-PI)
2014 University of Colorado, Denver, Office of Research Services Large Grant (\$15,000)
2012 DOE Joint Genome Institute, Microbial Sequencing Grant (Awarded to Mosier, Singer & Banfield; Funded to sequence 12 transcriptomes and 12 metatranscriptomes)
2009 Stanford University, School of Earth Sciences McGee Research Grant (\$2000)
2009 Stanford University, Environmental Earth System Science Capital Grant (\$1,066)
2008 Gordon and Betty Moore Foundation, Microbial Genome Sequencing Grant (Awarded to Francis & Mosier; Funded to sequence one microbial genome)
2007 Gordon and Betty Moore Foundation, Microbial Genome Sequencing Grant (Awarded to Francis & Mosier; Funded to sequence one microbial genome)
2006 Stanford University, School of Earth Sciences McGee Research Grant (\$2000)

FELLOWSHIPS AND SCHOLARSHIPS

- 2009-2011 Stanford University Diversifying Academia, Recruiting Excellence Doctoral Fellowship
2007-2010 EPA STAR Graduate Research Fellowship
2007-2010 NOAA National Estuarine Research Reserve Graduate Research Fellowship (*declined*)
2004 Governor Kenny Guinn Environmental Research Fellowship
2003-2004 NASA Space Grant Graduate Fellowship, Nevada NASA Space Grant Consortium
2003 Joan M Comanor Scholarship, University of Nevada, Reno
2002-2004 Oregon Ford Graduate Scholarship, Ford Family Foundation
1996-2000 Hallie Brown Ford Undergraduate Scholarship

1996-2000 Oregon Ford Undergraduate Scholarship, Ford Family Foundation

HONORS AND AWARDS

- 2019 American Society for Microbiology Peggy Cotter Travel Award Program
 2017 Young Upwardly Mobile Professors Travel Grant, University of Colorado, Denver
 2015 Young Upwardly Mobile Professors Travel Grant, University of Colorado, Denver
 2014 Young Upwardly Mobile Professors Travel Grant, University of Colorado, Denver
 2011 Outstanding Achievement in Mentoring Honor, Stanford University
 2009 Nitrification Network Travel Grant
 2009 American Society for Microbiology Travel Grant
 2007 American Society for Microbiology Travel Grant
 2006 Student Poster Scholarship, The Annual International Conference on Metagenomics
 2004 Graduate Student Association Travel Grant, University of Nevada, Reno
 2004 Phi Kappa Phi Honor Society Invitation, University of Nevada, Reno
 2003 Graduate Student Association Travel Grant, University of Nevada, Reno

REFEREED PUBLICATIONS († indicates mentored student)

- 2018 Boddicker[†], A.B., and **A.C. Mosier**. Genomic profiling of four cultivated *Candidatus Nitrotoga* spp. predicts broad metabolic potential and environmental distribution. *The ISME Journal*, 12: 2864–2882.
- 2017 Ramanathan[†], B., Boddicker[†], A.M., Roane, T.M., and **A.C. Mosier**. Nitrifier gene abundance and diversity in sediments impacted by acid mine drainage. *Frontiers in Microbiology*, 8: Article 2136.
- 2016 **Mosier, A.C.**, Miller, C.S., Frischkorn[†], K.R., Ohm, R.A., Li, Z., LaButti, K., Lapidus, A., Lipzen, A., Chen, C., Johnson, J., Lindquist, E.A., Pan, C., Hettich, R.L., Grigoriev, I.V., Singer, S.W., and J.F. Banfield. Fungi contribute critical but spatially varying roles in nitrogen and carbon cycling in acid mine drainage. *Frontiers in Microbiology*, 7: Article 238.
- 2015 **Mosier, A.C.**, Li, Z., Pan, C., Thomas, B.C., Hettich, R.L., and J.F. Banfield. Elevated temperature alters proteomic responses of individual organisms within a biofilm community. *The ISME Journal*, 9: 180–194.
-Featured “Research Highlight” in Nature Reviews Microbiology.
- 2015 Smith, J.M., **Mosier, A.C.**, and C.A. Francis. Spatiotemporal relationships between the abundance, distribution, and potential activities of ammonia-oxidizing and denitrifying microorganisms in intertidal sediments. *Microbial Ecology*, 69:13-24.
- 2015 Damashek, J., Smith, J.M., **Mosier, A.C.**, and C.A. Francis. Benthic ammonia oxidizers differ in community structure and biogeochemical potential across a riverine delta. *Frontiers in Microbiology*, 5: Article 743.
- 2014 Justice, N.B., Li, Z., Wang, Y., Spaulding, S.E., **Mosier, A.C.**, Hettich, R.L., Pan, C., and J.F. Banfield. ¹⁵N- and ²H proteomic stable isotope probing links nitrogen flow to archaeal heterotrophic activity. *Environmental Microbiology*, 16: 3224-3237.
- 2013 **Mosier***, **A.C.**, **Justice***, **N.B.**, Bowen, B.P., Baran, R., Thomas, B.C., Northen, T.R., and J.F. Banfield. Metabolites associated with adaptation of microorganisms to an acidophilic, metal-rich environment identified by stable-isotope-enabled metabolomics. *mBio* 4(2):00484-12.
***Contributed Equally**
- 2012 **Mosier, A.C.**, Lund, M.B., and C.A. Francis. Ecophysiology of an ammonia-oxidizing archaeon adapted to low-salinity habitats. *Microbial Ecology*, 64: 955-963.
- 2012 Biller, S.J., **Mosier***, **A.C.**, **Wells***, **G.F.**, and C.A. Francis. Global biodiversity of aquatic ammonia-oxidizing archaea is partitioned by habitat. *Frontiers in Microbiology*, 3: Article 252.
***Contributed Equally**

- 2012 **Mosier, A.C.**, Allen, E.E., Kim, M., Ferriera, S., and C.A. Francis. Genome sequence of “*Candidatus Nitrosoarchaeum limnia*” BG20, a low-salinity ammonia oxidizing archaeon from the San Francisco Bay estuary. *Journal of Bacteriology*, 194: 2119-2120.
- 2012 **Mosier, A.C.**, Allen, E.E., Kim, M., Ferriera, S., and C.A. Francis. Genome sequence of “*Candidatus Nitrosopumilus salaria*” BD31, an ammonia oxidizing archaeon from the San Francisco Bay estuary. *Journal of Bacteriology*, 194: 2121-2122.
- 2012 Robidart, J.C., Preston, C.M., Paerl, R.W., Turk, K.A., **Mosier, A.C.**, Francis, C.A., Scholin, C.A., and J.P. Zehr. Seasonal *Synechococcus* and *Thaumarchaeal* population dynamics examined with high resolution with remote in situ instrumentation. *The ISME Journal*, 6: 513-523.
- 2011 Pitcher, A., Hopmans, E.C., **Mosier, A.C.**, Park, S., Rhee, S., Francis, C.A., Schouten, S., and J.S. Sinninghe Damsté. Core and intact polar glycerol dibiphytanyl glycerol tetraether lipids of ammonia-oxidizing archaea enriched from marine and estuarine sediments. *Applied and Environmental Microbiology*, 77:3468-3477.
- 2011 **Mosier, A.C.**, and C.A. Francis. Determining the distribution of marine and coastal ammonia-oxidizing archaea and bacteria using a quantitative approach. *Methods in Enzymology*, 486: 205-221.
- 2011 **Blainey*, P.C., Mosier*, A.C.**, Potanina, A., Francis, C.A., and S.R. Quake. Genome of a low-salinity ammonia-oxidizing archaeon determined by single-cell and metagenomic analysis. *PLoS ONE*, 6: e16626. *Contributed Equally.
-Featured “most highly cited article” in *PLoS ONE* (May 2013).
-Featured “highly cited paper” in Web of Science (July/August 2017).
- 2011 Wankel, S.D., **Mosier, A.C.**, Hansel, C.M., Paytan, A., and C.A. Francis. Spatial variability in nitrification rates and ammonia-oxidizing microbial communities in the agriculturally impacted Elkhorn Slough estuary, California. *Applied and Environmental Microbiology*, 77(1): 269-280.
- 2010 **Mosier, A.C.**, and C.A. Francis. Denitrifier abundance and activity across the San Francisco Bay estuary. *Environmental Microbiology Reports*, 2(5): 667–676.
- 2008 **Mosier, A.C.**, and C.A. Francis. Relative abundance and diversity of ammonia-oxidizing archaea and bacteria in the San Francisco Bay estuary. *Environmental Microbiology*, 10(11): 3002-3016.
- 2007 **Mosier, A.C.**, Murray, A.E., and C.H. Fritsen. Microbiota within the perennial ice cover of Lake Vida, Antarctica. *FEMS Microbiology Ecology*, 59: 274-288.
- 2006 **Mosier, A.** Diversity of Life. In L. Mix, J. Armstrong, A. Mandel, **A. Mosier**, S. Rao, J. Raymond, S. Raymond, F. Stewart, and O. Zhaxybayeva, eds. *The Astrobiology Primer*. *Astrobiology*, 6 (5): 735-813.

NON-REFEREED PUBLICATIONS

- 2003 Davis, C., **Mosier, A.C.**, and C.H. Fritsen. Incline Creek watershed bioassessment; Fall 2001-Spring 2002. Report for the Desert Research Institute.
- 2002 **Mosier, A.C.**, and C.H. Fritsen. Limnological profiles at Walker Lake, Nevada, March 2002. Report for the Nevada Division of Environmental Protection (Bureau of Water Quality Planning) and the Nevada Division of Wildlife (Fisheries Bureau).
- 2002 Memmott, J., Fritsen, C.H., **Mosier, A.C.**, and M. Robinson. Truckee River biomass monitoring program. Report for Washoe County and Truckee Meadows Water Reclamation Facility.

PUBLICATIONS IN PREPARATION (†indicates mentored student)

- Tolar, B.B., **Mosier, A.C.**, Lund, M.B., and C.A. Francis. Nitrosoarchaeum. *Bergey's Manual of Systematics of Archaea and Bacteria*. In Press.
- Wise†, B., Roane, T.M., and **A.C. Mosier**. Community structure of denitrification genes in an acid mine drainage environment. *In Revision*.
- Subotic†, S., Boddicker†, A.M., Nguyen†, V.M., Rivers†, J., Briles, C.E., and **A.C. Mosier**. Honey bee microbiome associated with different hive and sample types over a honey production season. *In Review*.

Scopp[†], A., Subotic[†], S., and A.C. Mosier. Determining the source of fecal pollution in urban streams through microbial source tracking. *In Prep.*

INVITED TALKS AND SEMINARS

- 2019 American Society of Microbiology Regional Meeting (Denver, CO)
- 2019 Front Range Microbiome Symposium (Fort Collins, CO)
- 2018 Diversifying Academia, Recruiting Excellence Conference (Stanford, CA)
- 2018 Rocky Mountain Geobiology Symposium (Golden, CO)
- 2018 Colorado MS4 *E. coli* Implementation Meeting (Denver, CO)
- 2015 National Conference for the American Water Resources Association (Denver, CO)
- 2015 International Conference on Nitrification (Short-talk; Edmonton, Alberta, Canada)
- 2015 Rocky Mountain Hydrologic Research Center Annual Meeting (Denver, CO)
- 2015 University of Colorado, Denver, Geography & Environmental Sciences Seminar (Denver, CO)
- 2013 University of Colorado, Denver, Department of Integrative Biology (Denver, CO)
- 2012 DOE Joint Genome Institute Annual Meeting (Walnut Creek, CA)
- 2012 University of the Pacific, Department of Biology (Stockton, CA)
- 2012 California Lutheran University, Department of Biological Sciences (Thousand Oaks, CA)
- 2012 Siena College, Department of Biology (Albany, NY)
- 2012 East Carolina University, Department of Biology (Greenville, NC)
- 2012 California State University, Chico, Department of Biological Sciences (Chico, CA)
- 2009 International Conference on Nitrification (Short-talk; Louisville, KY)
- 2009 Coastal and Estuarine Research Federation Conference (Portland, OR)
- 2004 Nevada Space Grant Consortium Conference (Las Vegas, NV)
- 2004 NASA Astrobiology Graduate Conference (Tucson, AZ)

CONFERENCE POSTER PRESENTATIONS († indicates mentored student presenter)

- 2019 American Society of Microbiology General Meeting (student talk; San Francisco, CA)[†]
- 2019 American Society of Microbiology General Meeting (San Francisco, CA)
- 2019 Society of Environmental Toxicology and Chemistry Regional Meeting (Denver, CO)[†]
- 2019 Front Range Microbiome Symposium (Fort Collins, CO)[†]
- 2019 CU Denver Research and Creative Activities Symposium (Denver, CO)[†]
- 2019 CU Denver Research and Creative Activities Symposium (Denver, CO)[†]
- 2018 American Society of Microbiology Regional Meeting (student talk; Durango, CO)[†]
- 2018 CU Denver Research and Creative Activities Symposium (student talk; Denver, CO)[†]
- 2018 CU Denver Research and Creative Activities Symposium (Denver, CO)[†]
- 2017 American Society of Microbiology General Meeting (New Orleans, LA)[†]
- 2017 Universities Council on Water Resources/National Institutes for Water Resources Conference (Fort Collins, CO)[†]
- 2017 American Society of Microbiology Regional Meeting (Denver, CO)[†]
- 2017 Society of Environmental Toxicology and Chemistry Regional Meeting (Golden, CO)[†]
- 2017 CU Denver Research and Creative Activities Symposium (Denver, CO)[†]
- 2017 CU Denver Research and Creative Activities Symposium (Denver, CO)[†]
- 2016 American Society of Microbiology Regional Meeting (Denver, CO)[†]
- 2016 American Society of Microbiology Regional Meeting (Denver, CO)[†]
- 2016 American Society of Microbiology General Meeting (Boston, MA)[†]
- 2016 American Society of Microbiology General Meeting (Boston, MA)[†]
- 2016 Geological Society of America Conference (Denver, CO)[†]
- 2016 Sustaining Colorado Watersheds Conference (Avon, CO)[†]
- 2016 CU Denver Research and Creative Activities Symposium (Denver, CO)[†]
- 2016 Front Range Student Ecology Symposium (Fort Collins, CO)[†]
- 2016 Front Range Student Ecology Symposium (Fort Collins, CO)[†]

- 2015 American Society of Microbiology Regional Meeting (Lakewood, CO)[†]
 2015 CU Denver Research and Creative Activities Symposium (Denver, CO)[†]
 2013 American Society of Microbiology General Meeting (co-author; Denver, CO)
 2012 American Society of Microbiology General Meeting (San Francisco, CA)
 2012 American Society of Microbiology General Meeting (co-author; San Francisco, CA)
 2012 American Society of Microbiology General Meeting (co-author; San Francisco, CA)
 2012 DOE Joint Genome Institute Annual Meeting (Walnut Creek, CA)
 2012 DOE Genomic Science Meeting (Bethesda, MD)
 2011 Congress of European Microbiologists (FEMS) (co-author; Geneva, Switzerland)
 2011 American Society of Microbiology General Meeting (co-author; New Orleans, LA)
 2011 American Society of Microbiology General Meeting (co-author; New Orleans, LA)
 2010 International Symposium on Microbial Ecology (Seattle, WA)
 2010 International Symposium on Microbial Ecology (co-author; Seattle, WA)
 2010 International Symposium on Microbial Ecology (co-author; Seattle, WA)
 2009 American Society of Microbiology General Meeting (Philadelphia, PA)
 2009 American Society of Microbiology General Meeting (co-author; Philadelphia, PA)
 2009 Coastal and Estuarine Research Federation Biennial Conference (co-author; Portland, OR)
 2009 Association for the Sciences of Limnology and Oceanography Meeting (co-author; Portland, OR)
 2009 Association for the Sciences of Limnology and Oceanography Meeting (co-author; Nice, France)
 2008 International Symposium on Microbial Ecology (Cairns, Australia)
 2008 Stanford University School of Earth Sciences Research Review (Stanford, CA)
 2008 Association for the Sciences of Limnology and Oceanography Meeting (co-author; Orlando, FL)
 2008 American Society of Microbiology General Meeting (co-author; Boston, MA)
 2007 American Society of Microbiology General Meeting (Toronto, Canada)
 2007 Stanford University School of Earth Sciences Research Review (Stanford, CA)
 2006 American Geophysical Union Fall Meeting (San Francisco, CA)
 2006 International Conference of Metagenomics (La Jolla, CA)
 2006 Association for the Sciences of Limnology and Oceanography Meeting (co-author; Honolulu, HI)
 2005 Student Collaborations for Ocean Research and Education (Pacific Grove, CA)
 2004 International Symposium on Microbial Ecology (Cancun, Mexico)
 2004 National Science Foundation Nevada EPSCoR Workshop on Integrative Approaches to Abiotic Stress Across Biological Disciplines (Kings Beach, CA)
 2004 NASA Astrobiology Science Conference (Moffett Field, CA)
 2004 American Society of Microbiology General Meeting (co-author; New Orleans, LA)
 2003 Association for the Sciences of Limnology and Oceanography Meeting (co-author; Salt Lake City, UT)

TEACHING

Courses Taught.

General Microbiology, University of Colorado, Denver, BIOL3654
 Biological Research Workshop, University of Colorado, Denver, BIOL6705
 Biology Seminar, University of Colorado, Denver, BIOL4990/6655
 Directed Research, University of Colorado, Denver, BIOL4880/5880
 Independent Study, University of Colorado, Denver, BIOL2840/3840/4840/5840
 Life in the Universe, Western Nevada Community College, EDU295B

Invited Lecturer.

Environmental Sciences Seminar, University of Colorado, Denver, ENVS6002 (Fall 2017)
 Colorado Foundation for Agriculture's Summer Agriculture Institute, Five Fridges Farm (Summer 2016)
 Environmental Microbial Genomics, Stanford University, EESS259 (Winter 2014)
 Geomicrobiology, Stanford University, EESS158 (Winter 2010)

Astrobiology, Western Nevada Community College, AST198 (Fall 2003)

Teaching Assistant.

Hopkins Microbiology Course, Stanford University, CEE274 (Summer 2007; part-time for Summers 2008 & 2009)

Environmental Microbial Genomics, Stanford University, GES269 (Spring 2007)

Seminar in Oceanography, Stanford University, GES324 (Winter 2007)

Dynamic Earth: Fundamentals of Earth Science, Stanford University, GES1 (Fall 2006)

The Oceans: An Introduction to the Marine Environment, Stanford University, GES8 (Spring 2006)

ADVISING

Research Advisor.

2018-present Bryan Jaime, Undergraduate, University of Colorado, Denver
 2018-present Ashley Luntsford, Undergraduate/Research assistant, University of Colorado, Denver
**Awarded the Smilodon Outstanding Upperclassman Award (Fall 2018)*
 2016-present Michael Kain, Undergraduate/M.S. student, University of Colorado, Denver
 2015-2019 Andrew Boddicker, Research assistant/M.S. student, University of Colorado, Denver
**Awarded the CU Denver CLAS Outstanding Graduate Student Award (Fall 2017)*
**Awarded an American Society of Microbiology Regional Meeting Poster Award and National Meeting Travel Grant (2016)*
 2015-2019 Munira Lantz, Ph.D. student, University of Colorado, Denver
**Awarded a Saudi Arabian Cultural Mission Graduate Fellowship (2014-2018)*
**Awarded an American Society of Microbiology Microbe Minority Travel Award (2019)*
**Awarded the SETAC Regional Meeting Best Poster (2019)*
 2017-2019 Owen Berg, Undergraduate, University of Colorado, Denver
**Awarded the CU Denver CLAS Outstanding Undergraduate Student Award (Fall 2018)*
**Awarded top RaCAS presentation in Natural Sciences (2019)*
 2017-2019 James Rivers, Undergraduate, University of Colorado, Denver
 2017-2018 Kaitlyn Elliott, Undergraduate, University of Colorado, Denver
**Awarded an Undergraduate Research Opportunity Program Mini Grant (2017)*
 2017-2018 Hannah Lawrence, Undergraduate, University of Colorado, Denver
 2016-2018 Anna Scopp, M.S. student, University of Colorado, Denver
 2016-2018 Sladjana Subotic, Research assistant, University of Colorado, Denver
 2017-2018 Brian Legvold, Undergraduate, University of Colorado, Denver
 2015-2017 Ben Wise, M.S. student, University of Colorado, Denver
 2015-2017 Emily Corkum, M.S. student, University of Colorado, Denver
 2016-2017 Vy Nguyen, Undergraduate/post-baccalaureate student, University of Colorado, Denver
**Awarded an Undergraduate Research Opportunity Program Grant (2016)*
**Awarded top RaCAS presentation in Integrated Sciences (2017)*
 2014-2017 Bhargavi Ramanathan, M.S. student, Research Assistant, University of Colorado, Denver
**Awarded an American Society of Microbiology Travel Grant (2016)*
 2014-2016 Nicklaus Deevers, Undergraduate, University of Colorado, Denver
**Awarded an Undergraduate Research Opportunity Program Grant (2015)*
 2016 Renee Kershaw, Undergraduate, University of Colorado, Denver
 2016 Colin Beacom, Undergraduate, University of Colorado, Denver
 2015-2016 Ashley Gonzales, Undergraduate, University of Colorado, Denver
 2014-2015 Hannah Clark, Post-baccalaureate student, University of Colorado, Denver
 2014-2015 Kerry Gip, Undergraduate, University of Colorado, Denver
 2014 Mudhafer Dhaher, Undergraduate, University of Colorado, Denver
 2014 Andrea Garcia, Undergraduate, University of Colorado, Denver
 2012 Kyle Frischkorn, Research assistant, University of California, Berkeley

2010 Jennifer Hwang, High school student, Stanford University
 2008 Helen Chen, Undergraduate, Stanford University
 2006-2008 Natalie Derby, High school student, Stanford University
 2005 Ivy Tai, High school student, Stanford University

Graduate Thesis Committee Member.

2019-Present Maria Nikulkova, M.S. student, University of Colorado, Denver
 2018-Present David Bertolatus, Ph.D. student, University of Colorado, Denver (Chair)
 2015-Present Andres Andrade, Ph.D. student, University of Colorado, Denver
 2014-2018 Adrienne Narrowe, Ph.D. student, University of Colorado, Denver
 2016-2018 David Banks-Richardson, M.S. student, University of Colorado, Denver
 2016-2017 Kelsey Foster, M.S. student, University of Colorado, Denver
 2014-2016 Sladjana Subotic, M.S. student, University of Colorado, Denver

Learning Assistant Advisor.

2017 Troy Markgraf, Undergraduate, University of Colorado, Denver
 2017 Britany Innes, Undergraduate, University of Colorado, Denver
 2017 Eunji Im, Undergraduate, University of Colorado, Denver
 2017 Kaitlyn Elliott, Undergraduate, University of Colorado, Denver
 2016 Renee Kershaw, Undergraduate, University of Colorado, Denver
 2016 Anthony Dang, Undergraduate, University of Colorado, Denver
 2016 Katie Harmon, Undergraduate, University of Colorado, Denver
 2016 Tiffany Montoya, Undergraduate, University of Colorado, Denver

SERVICE

Department Service (Department of Integrative Biology, University of Colorado, Denver).

2018-present Committee Member, Search Committee for Physiology Faculty Position
 2017-present Committee Member, Merit Review Committee
 2014-present Committee Member, Teaching Effectiveness Committee
 2019 Participant, HHMI Inclusive Pedagogy in Biology Workshop
 2019 Participant, TA Responsibilities and Credit Working Group
 2014-2018 Participant, Microbiology Super Group (department-wide microbiology research group)
 2017 Ph.D. Preliminary Examination Committee
 2015-2016 Committee Member, Search Committee for Physiological Genomics Faculty Position

University Service (University of Colorado, Denver).

2017-present Committee Member, College of Liberal Arts and Sciences (CLAS) Council
 2015-present Participant, First Generation Network
 2018 Mentor for EURēCA Undergraduate Research programs, University of Colorado, Denver
 2014-2017 Co-Faculty Sponsor, Women in Science, Technology, Engineering and Mathematics Student Group (WiSTEM)
 2017 Grant Reviewer, Undergraduate Research Opportunity Program (UROP)
 2016 Interim Faculty Representative for Denver Campus, Environmental Health Sciences Program for Underrepresented Students, University of Colorado, Anschutz

Professional Service: Invited Manuscript Reviewer (Number of Manuscripts).

- 2019 Journal of Geophysical Research – Biogeosciences (1)
- 2018 Applied and Environmental Microbiology (2); Frontiers in Microbiology (1)
- 2017 Environmental Microbiology (1); FEMS Microbiology Ecology (1)
- 2016 The ISME Journal (1); Applied and Environmental Microbiology (1); Frontiers in Microbiology (2); Environmental Science and Technology (1); Standards in Genomic Sciences (1)
- 2015 The ISME Journal (1); Applied and Environmental Microbiology (1); Frontiers in Microbiology (1); Limnology and Oceanography (1); Microbial Ecology (1); Science of the Total Environment (1)
- 2014 The ISME Journal (2); FEMS Microbiology Ecology (1); Antonie van Leeuwenhoek Journal of Microbiology (2)
- 2013 Environmental Microbiology (1); Applied and Environmental Microbiology (3); Frontiers in Microbiology (1); BMC Microbiology (1); Microbial Ecology (2)
- 2012 The ISME Journal (1); FEMS Microbiology Ecology (3); Microbial Ecology (1)
- 2011 The ISME Journal (2)
- 2009 Research in Microbiology (1); Vadose Zone Journal (1)

Professional Service: Invited Proposal Reviewer.

- 2017 National Science Foundation, Antarctic Organisms and Ecosystems Program
- 2016 National Science Foundation, Division of Environmental Biology Program
- 2015 National Science Foundation, Biological Oceanography Program
- 2015 National Science Foundation, Geobiology and Low-Temperature Geochemistry Program
- 2015 Austrian Science Fund
- 2014 NASA Grant Review Panel, Exobiology Program, NNH14ZDA001N-EXO (reviewed 10 individual proposals and contributed to the broader panel review process)
- 2014 National Science Foundation, Biological Oceanography Program
- 2013 National Science Foundation, Biological Oceanography Program
- 2012 National Science Foundation, Biological Oceanography Program

Professional Service: Invited Textbook Reviewer.

- 2014 Reviewed six chapters of the textbook, “Microbiology: An Evolving Science” (W. W. Norton & Company)

Professional Service: Other.

- 2019 Poster Judge, American Society of Microbiology Regional Meeting
- 2019 Poster Judge, Front Range Microbiome Symposium
- 2010 Participant, Microbiological Targets for Ocean Observing Laboratories Workshop
- 2009 Executive Secretary, NASA Grant Review Panel, Exobiology, NNH08ZDA001N-EXOB
- 2009 Panel Participant, School of Earth Sciences Research Review, Stanford University
- 2008 Committee Member, Search for Marine Chemist Faculty Position, Stanford University
- 2007 Representative, School of Earth Sciences Graduate Student Advisory Council, Stanford University
- 2007 Committee Member, Search for Assistant Dean for Academic Affairs, School of Earth Sciences, Stanford University
- 2007 Organizing Committee Member, Association for Women in Science Mentoring Program (4 years)
- 2006 Participant, Global Bioreactor Network Workshop, Nanyang Technological University, Singapore

Community Service.

- 2019 Session leader for Science in the City: STEAM Camp for 1st-6th graders
- 2019 Contributor for Genomic Science and Leadership Initiative Workshop for native undergraduates

- 2018 Volunteer leader of microbiology lesson and experiment for 1st graders, Bill Roberts School
- 2018 Volunteer leader of microbiology lesson and experiment for preschoolers, Bill Roberts School
- 2018 Mentor for Denver Public Schools Science Fair Project
- 2009 Volunteer for the School of Earth Sciences Geokids Program, Stanford University
- 2008 Mentor for the Oregon Ford Scholar Mentoring Program
- 2008 Volunteer for the Expanding Your Horizons science conference for 6-9th grade girls
- 2003 Mentor for NASA Astrobiology Academy group research project

Memberships in Professional Societies.

- American Society for Microbiology
- American Water Resources Association
- Association for Women in Science
- International Society for Microbial Ecology

PROFESSIONAL DEVELOPMENT

- 2014-present Participant: Tenure Track Faculty Mentoring Program (CU Denver)
- 2019 Workshop: Writing a Project Overview (CU Denver)
- 2017 Workshop: Research Management Strategies (CU Denver)
- 2016 Seminar: Statistical Analyses in Undergraduate Courses (CU Denver)
- 2015 Conference: Beginning a Research Program (Council on Undergraduate Research)
- 2015 Seminar: Inclusive Pedagogy (CU Denver)
- 2015 Workshop: Working with Program Officers (CU Denver)
- 2014 Seminar: Writing Effective Broader Impact Statements in Grant Proposals (CU Denver)
- 2014 Seminar: Integrating Positive Psychology in the College Classroom (CU Denver)
- 2014 Seminar: RTP Information Session for Tenure-Track Faculty (CU Denver)
- 2008-2010 Workshops: Management, Leadership, and Conflict Resolution (Stanford University)
- 2009-2010 Course: Navigating the Academic Profession (Stanford University)
- 2009 Conference: EPA STAR Graduate Fellowship Conference Career Development Session
- 2009 Workshop: Nitrification Network Workshop for Graduate Students and Early Stage Investigators
- 2008 Workshop: Microbial Genomics and Metagenomics (DOE Joint Genome Institute)
- 2008-2009 Seminar Series: Academic Chat Series on Academic Careers (Stanford University)
- 2008 Seminar: Designing Your Own Course (Stanford University)
- 2008 Seminar: Teaching Portfolios (Stanford University)
- 2007 Arthur Walker Program for Expanding Diversity in the Sciences (Stanford University)
- 2006 Hopkins Microbiology Course, Hopkins Marine Station (Stanford University)
- 2005-2011 Participant in the Association for Women in Science Mentoring Program
- 2005 Recorded Teaching Session (Stanford University)
- 2005 Course: Professional Development in Geoscience Education (Stanford University)
- 2003 Marine Biological Laboratory Arctic Ecology and Modeling Course (Alaska)
- 2003 NASA Astrobiology Institute Insight Course: Planetary Science (N. Arizona University)
- 1998 Study Abroad, Biology of Australian Ecosystems (James Cook University, Australia)